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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/912,824	07/25/2001	William C. Olson	62942-B/JPW/SHS	7125
7590 04/20/2004		EXAMINER		
John P. White			PARKIN, JEFFREY S	
Cooper & Dunh	nam, LLP			
1185 Avenue of the Americas			ART UNIT	PAPER NUMBER
New York, NY 10036			1648	
			DATE MAILED: 04/20/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/912,824	OLSON ET AL.
Office Action Summary	Examiner	Art Unit
	Jeffrey S. Parkin, Ph.D.	1648
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days,  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the meaning patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	pply be timely filed  (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 02	2 January 2004.	
2a) This action is <b>FINAL</b> . 2b) ⊠ T	his action is non-final.	
3) Since this application is in condition for allocal closed in accordance with the practice under the condition of the co	•	•
Disposition of Claims		
4) ☐ Claim(s) 1,2,43 and 46-48 is/are pending in 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1,2,43 and 46-48 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and	drawn from consideration.	
Application Papers		
9) The specification is objected to by the Exam		
10)☐ The drawing(s) filed on is/are: a)☐ a		
Applicant may not request that any objection to t		
Replacement drawing sheet(s) including the cord 11) The oath or declaration is objected to by the		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burn * See the attached detailed Office action for a line	ents have been received. ents have been received in Ap riority documents have been r eau (PCT Rule 17.2(a)).	oplication No received in this National Stage
coo the attached actained critice action for a r	ist of the certified copies not re	eceived.
Attachment(s)	_	
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413) /Mail Date
<ul> <li>Notice of Dratisperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date</li> </ul>		formal Patent Application (PTO-152)

Serial No.: 09/912,824 Docket No.: 62942
Applicants: Olson, W., and P. J. Maddon Filing Date: 07/25/01

#### Detailed Office Action

#### Status of the Claims

Acknowledgement is hereby made of receipt and entry of the amendment filed 02 January, 2004. Claims 1, 2, 43, and 46-48 are currently under examination.

## 35 U.S.C. § 103(a)

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. § 103(c) and potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103(a).

Serial No.: 09/912,824
Applicants: Olson, W. C., and P. J. Maddon

Claims 1, 43, 46, and 48 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over the combined teachings of Lee et al. (1999) and Furuta et al. (1998). As previously set forth, Lee and colleagues (1999) provide monoclonal antibodies that bind to the HIV-1 chemokine coreceptor CCR5 and inhibit viral binding to said Furuta and associates (1998) provide a compound (DPreceptor. 178/T20) that prevents Env-mediated membrane fusion by binding to a fusion intermediate. Therefore, it would have been prima facie obvious to one having ordinary skill in the art at the time the invention was made to combine two known compounds that are capable of inhibiting viral replicative events into a single composition since this would provide a more efficient antiviral compound. of ordinary skill in the art would have also been motivated to employ such a composition in inhibitory methodologies to prevent HIV-infection.

Applicants assert that the claimed invention is allowable because the combination of ingredients provides an unexpected and synergistic effect in terms of inhibiting HIV-1 infection. Applicants are reminded that the claims are simply directed toward a composition comprising two ingredients. The claims do not require any particular level of antiviral activity. specific combinations may provide synergistic effects (e.g., PRO 542 and T20), nevertheless, there is no requirement in the generic composition for such activity. The claims only require an admixture of two compounds. Both of the compounds are present in the prior art and known to display antiviral activity. Therefore, it would have been prima facie obvious to one having ordinary skill in the art at the time the invention was made to combine two known compounds that are capable of inhibiting viral replicative events into a single composition since this would provide a more efficient Applicants may wish to amend the claim antiviral compound. language to incorporate the specific antiviral agents set forth in Serial No.: 09/912,824
Applicants: Olson, W. C., and P. J. Maddon

the specificiation (i.e., A composition ... wherein the first compound is PRO 542 and the second compound is T-20 ...).

Claims 2, 43, 47, and 48 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over the combined teachings of Lee et al. (1999) and Furuta et al. (1998), as applied supra to claims 1, 43, 46, and 48, and further in view of Valenzuela et al (1997). previously set forth. Valenzuela and colleagues neutralizing monoclonal gp120-specific antibodies that block HIV-1 gp120 CD4-dependent and -independent binding. Therefore, it would have been prima facie obvious to one having ordinary skill in the art at the time the invention was made to combine three known compounds that are capable of inhibiting viral replicative events into a single composition since this would provide a more efficient antiviral compound. One of ordinary skill in the art would have also been motivated to employ such a composition in inhibitory methodologies to prevent HIV-infection.

Applicants assert that the claimed invention is allowable because the combination of ingredients provides an unexpected and in terms of inhibiting HIV-1 infection. synergistic effect Applicants are reminded that the claims are simply directed toward a composition comprising three ingredients. The claims do not require any particular level of antiviral activity. While some specific combinations may provide synergistic effects (e.g., PRO 542, T-20, and PRO 140), nevertheless, there is no requirement in the generic composition for such activity. The claims only require an admixture of two compounds. Both of the compounds are present in the prior art and known to display antiviral activity. Therefore, it would have been prima facie obvious to one having ordinary skill in the art at the time the invention was made to combine two known compounds that are capable of inhibiting viral replicative events into a single composition since this would Serial No.: 09/912,824
Applicants: Olson, W. C., and P. J. Maddon

provide a more efficient antiviral compound. Applicants may wish to amend the claim language to incorporate the specific antiviral agents set forth in specificiation (i.e., A composition ... wherein the first compound is PRO 542, the second compound is T-20, and third compound is PRO 140 ...).

### Correspondence

Any inquiry concerning this communication should be directed to Jeffrey S. Parkin, Ph.D., whose telephone number is (571) 272-0908. The examiner can normally be reached Monday through Thursday from 9:30 AM to 7:00 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner are unsuccessful, the examiner's supervisors, Laurie Scheiner or James Housel, can be reached at (571) 272-0910 or (571) 272-0902, respectively. Direct general inquiries to the Technology Center 1600 receptionist at (571) 272-1600.

Formal communications may be submitted through the official facsimile number which is (703) 872-9306. Hand-carried formal communications should be directed toward the customer window located in Crystal Plaza Two, 2011 South Clark Place, Arlington, VA. Applicants are directed toward the O.G. Notice for further guidance. 1280 O.G. 681. Informal communications may be submitted to the Examiner's RightFAX account at (571) 273-0908.

Respectfully,

Jeffrey S. Parkin, Ph.D.

Patent Examiner Art Unit 1648

16 April, 2004